

What is claimed is:

1. A horizontal omni-directional windmill comprising :
a rotor including an upper platform and a lower platform,
a plurality of identically configured blades, wherein each of said blades
is of a substantially aerodynamic configuration, each of said blades being
oriented at a broad angle relative to the radius of said rotor, said blades
being oriented in a generally vertical orientation relative to said upper and
lower platforms.
2. A horizontal omni-directional windmill according to claim 1, wherein said
windmill is rotatable about its vertical axis.
3. A horizontal omni-directional windmill according to claim 1, wherein said
windmill further includes means for coupling said rotor to a power generator.
4. A horizontal omni-directional windmill according to claim 2, wherein said
means for coupling is a power transfer shaft .
5. A horizontal omni-directional windmill according to claim 1, wherein the angle
of the blades is variable.
6. A horizontal omni-directional windmill according to claim 5, wherein said
windmill includes a control mechanism for varying the angular orientation of
the variable angle blades relative to the radius of said rotor.
7. A horizontal omni-directional windmill according to claim 5, wherein said
angular orientation of said variable angle blades is selected between about
20° and about 50°.
8. A horizontal omni-directional windmill according to claim 5, wherein said
angle is selected between about 35° and about 45°.

9. A horizontal omni-directional windmill according to claim 5, wherein said angle is about 40°.
10. A horizontal omni-directional windmill comprising :
 - a rotor including an upper platform and a lower platform,
 - a plurality of variable angle identically configured blades, wherein each of said blades is of a substantially aerodynamic configuration, each of said blades being oriented at a broad angle relative to the radius of said rotor, said blades being oriented in a generally vertical orientation relative to said upper and lower platforms.
11. A horizontal omni-directional windmill according to claim 10, further including means for adjusting the angle of said variable angle blades.
12. A horizontal omni-directional windmill according to claim 10, wherein said windmill is rotatable about its vertical axis.
13. A horizontal omni-directional windmill according to claim 10, wherein said windmill further includes means for coupling said rotor to a power generator.
14. A horizontal omni-directional windmill according to claim 10, wherein said means for coupling is a power transfer shaft .
15. A horizontal omni-directional windmill according to claim 10, wherein said windmill includes a control mechanism for varying the angular orientation of the variable angle blades relative to the radius of said rotor.
16. A horizontal omni-directional windmill according to claim 10, wherein said angular orientation of said variable angle blades is selected between about 20° and about 50°.
17. A horizontal omni-directional windmill according to claim 10, wherein said angle is selected between about 35° and about 45°.

18. A horizontal omni-directional windmill according to claim 10, wherein said angle is about 40°.